

1       - -U.S. Patent Application No. 10/728,627 ~~(Attorney~~  
2 ~~Docket No. TI-34654)~~, entitled APPARATUS AND METHOD FOR  
3 SYNCHRONIZATION OF TRACE STREAMS FROM MULTIPLE PROCESSING  
4 UNITS, invented by Gary L. Swoboda, filed on even date  
5 herewith, and assigned to the assignee of the present  
6 application; U.S. Patent Application No. 10/729,212  
7 ~~(Attorney Docket No. TI-34655)~~, entitled APPARATUS AND  
8 METHOD FOR SEPARATING DETECTION AND ASSERTION OF A TRIGGER  
9 EVENT, invented by Gary L. Swoboda, filed on even date  
10 herewith, and assigned to the assignee of the present  
11 application; U.S. Patent Application No. 10/729,650  
12 ~~(Attorney Docket No. TI-34657)~~, entitled APPARATUS AND  
13 METHOD FOR SELECTING PROGRAM HALTS IN AN UNPROTECTED  
14 PIPELINE AT NON-INTERRUPTIBLE POINTS IN CODE EXECUTION,  
15 invented by Gary L. Swoboda, filed on even date herewith,  
16 and assigned to the assignee of the present application;  
17 U.S. Patent Application No. 10/729,591 ~~(Attorney Docket No.~~  
18 ~~TI-34658)~~, entitled APPARATUS AND METHOD FOR REPORTING  
19 PROGRAM HALTS IN AN UNPROTECTED PIPELINE AT NON-  
20 INTERRUPTIBLE POINTS IN CODE EXECUTION, invented by Gary L.  
21 Swoboda, filed on even date herewith, and assigned to the  
22 assignee of the present application; U.S. Patent  
23 Application No. 10/729,407 ~~(Attorney Docket No. TI-34659)~~,  
24 entitled APPARATUS AND METHOD FOR A FLUSH PROCEDURE IN AN  
25 INTERRUPTED TRACE STREAM, invented by Gary L. Swoboda,  
26 filed on even date herewith, and assigned to the assignee  
27 of the present application; U.S. Patent Application No.  
28 10/729,564 ~~(Attorney Docket No. TI-34660)~~, entitled  
29 APPARATUS AND METHOD FOR CAPTURING AN EVENT OR COMBINATION  
30 OF EVENTS RESULTING IN A TRIGGER SIGNAL IN A TARGET

1 PROCESSOR, invented by Gary L. Swoboda, filed on even date  
2 herewith, and assigned to the assignee of the present  
3 application; U.S. Patent Application No. 10/729,400  
4 ~~(Attorney Docket No. TI-34661)~~, entitled APPARATUS AND  
5 METHOD FOR CAPTURING THE PROGRAM COUNTER ADDRESS ASSOCIATED  
6 WITH A TRIGGER SIGNAL IN A TARGET PROCESSOR, invented by  
7 Gary L. Swoboda, filed on even date herewith, and assigned  
8 to the assignee of the present application; U.S. Patent  
9 Application No. 10/729,592 ~~(Attorney Docket No. TI-34662)~~,  
10 entitled APPARATUS AND METHOD DETECTING ADDRESS  
11 CHARACTERISTICS FOR USE WITH A TRIGGER GENERATION UNIT IN A  
12 TARGET PROCESSOR, invented by Gary L. Swoboda and Jason L.  
13 Peck, filed on even date herewith, and assigned to the  
14 assignee of the present application U.S. Patent Application  
15 No. 10/729,639 ~~(Attorney Docket No. TI-34663)~~, entitled  
16 APPARATUS AND METHOD FOR TRACE STREAM IDENTIFICATION OF A  
17 PROCESSOR RESET, invented by Gary L. Swoboda and Bryan  
18 Thome, filed on even date herewith, and assigned to the  
19 assignee of the present application; U.S. Patent  
20 Application No. 10/729,214591 ~~(Attorney Docket No. TI-~~  
21 ~~34664)~~, entitled APPARATUS AND METHOD FOR TRACE STREAM  
22 IDENTIFICATION OF A PROCESSOR DEBUG HALT, invented by Gary  
23 L. Swoboda, Bryan Thome, Lewis Nardini, and Manisha  
24 Agarwala, filed on even date herewith, and assigned to the  
25 assignee of the present application; U.S. Patent  
26 Application No. 10/729,327 ~~(Attorney Docket No. TI-34665)~~,  
27 entitled APPARATUS AND METHOD FOR TRACE STREAM  
28 IDENTIFICATION OF A PIPELINE FLATTENER PRIMARY CODE FLUSH  
29 FOLLOWING INITIATION OF AN INTERRUPT SERVICE ROUTINE;  
30 invented by Gary L. Swoboda and Bryan Thome, filed on even

1 date herewith, and assigned to the assignee of the present  
2 application; U.S. Patent Application No. 10/729,647  
3 ~~(Attorney Docket No. TI-34666)~~, entitled APPARATUS AND  
4 METHOD FOR TRACE STREAM IDENTIFICATION OF A PIPELINE  
5 FLATTENER SECONDARY CODE FLUSH FOLLOWING A RETURN TO  
6 PRIMARY CODE EXECUTION, invented by Gary L. Swoboda and  
7 Bryan Thome, filed on even date herewith, and assigned to  
8 the assignee of the present application; U.S. Patent  
9 Application No. 10/729,401 ~~(Docket No. TI-34667)~~, entitled  
10 APPARATUS AND METHOD IDENTIFICATION OF A PRIMARY CODE START  
11 SYNC POINT FOLLOWING A RETURN TO PRIMARY CODE EXECUTION,  
12 invented by Gary L. Swoboda, filed on even date herewith,  
13 and assigned to the assignee of the present application; U.  
14 S. Patent Application No. 10/729,326 ~~(Attorney Docket No.~~  
15 ~~TI-34668)~~, entitled APPARATUS AND METHOD FOR IDENTIFICATION  
16 OF A NEW SECONDARY CODE START POINT FOLLOWING A RETURN FROM  
17 A SECONDARY CODE EXECUTION, invented by Gary L. Swoboda,  
18 filed on even date herewith, and assigned to the assignee  
19 of the present application; U.S. Patent Application No.  
20 10/729,190 ~~(Attorney Docket No. TI-34669)~~, entitled  
21 APPARATUS AND METHOD FOR TRACE STREAM IDENTIFICATION OF A  
22 PAUSE POINT IN A CODE EXECUTION SEQUENCE, invented by Gary  
23 L. Swoboda, filed on even date herewith, and assigned to  
24 the assignee of the present application; U.S. Patent  
25 Application No. 10/729,196 ~~(Attorney Docket No. TI-34670)~~,  
26 entitled APPARATUS AND METHOD FOR COMPRESSION OF A TIMING  
27 TRACE STREAM, invented by Gary L. Swoboda and Bryan Thome,  
28 filed on even date herewith, and assigned to the assignee  
29 of the present application; U.S. Patent Application No.  
30 10/729,272 ~~(Attorney Docket No. TI-34671)~~, entitled

1 APPARATUS AND METHOD FOR TRACE STREAM IDENTIFICATION OF  
2 MULTIPLE TARGET PROCESSOR EVENTS, invented by Gary L.  
3 Swoboda and Bryan Thome, filed on even date herewith, and  
4 assigned to the assignee of the present application; and  
5 U.S. Patent Application No. 10/729,191 (~~Attorney Docket No.~~  
6 ~~TI-34672~~), entitled APPARATUS AND METHOD FOR OP CODE  
7 EXTENSION IN PACKET GROUPS TRANSMITTED IN TRACE STREAMS,  
8 invented by Gary L. Swoboda and Bryan Thome, filed on even  
9 date herewith, and assigned to the assignee of the present  
10 application are related applications.- -  
11

12 **Please delete the Paragraph beginning on Line 12 of Page 10**  
13 **and replace that Paragraph with the following Paragraph.**  
14

15 - -A need has been felt for apparatus and an  
16 associated method having the feature that selected trace  
17 streams can be disabled. It would be a further feature of  
18 the apparatus and associated method that selected trace  
19 streams can be disabled during a halt in the program  
20 execution. It would be yet a further feature of the  
21 present apparatus and associated method that selected trace  
22 streams can be disabled during an interrupt service  
23 routine. It would be a more ~~amere~~ particular feature of  
24 the apparatus and present invention to provide information  
25 in the trace streams relating to the instructions stored in  
26 the pipeline flattener during interruptions to the program  
27 execution.- -

1 Please delete the Paragraph beginning on Line 9 of Page 27  
2 and replace that Paragraph with the following Paragraph.

3  
4 - -In order to accommodate the delay in access to the  
5 memory unit, the instructions are routed through a pipeline  
6 flattener. Therefore, during a code execution halt, the  
7 pipeline flattener will contain instructions that are still  
8 in the process of being executed. The program counter  
9 address is delayed to accommodate the delay of the pipeline  
10 and the delay of the pipeline flattener. The pipeline  
11 flattener is ~~in~~ an unprotected pipeline stalls along with  
12 the pipeline when the code execution is halted. In a  
13 protected pipeline continues to fill with nulls during a  
14 code execution halt, thereby expelling the instructions  
15 entered in the primary or second code execution state.  
16 Although the pipeline flattener expedites the separation of  
17 the primary and secondary code execution states, the  
18 pipeline flattener is not required for instruction  
19 alignment. Tags can be separately associated with program  
20 counter values, read activity, and write activity,  
21 obviating the need for the pipeline flattener.- -

22  
23 Please delete the Paragraph beginning on Line 23 of Page 28  
24 and replace that Paragraph with the following Paragraph.

25  
26 - -In the testing of a target processor, large amounts  
27 of information need to be transferred from the target  
28 processor to the host processing unit. Because of the  
29 large amount of data to be transferred within a limited  
30 bandwidth, every effort is provided to eliminate

1 unnecessary ~~necessary~~ information transfer. For example,  
2 the program counter trace stream, when the program is  
3 executed in a straight-forward manner and the sync ID  
4 markers are not present, would consist only of a first and  
5 last sync point marker.- -